

Product Data Sheet

Product Name: MK-0557

Cat. No.: GC31335

Chemical Properties

Cas. No. 328232-95-7

SMILES O=C([C@H]1CC[C@@](C2=C3C=CN=C2)(OC3=O)CC1)NC4=NN(C5=CC=CC=C5F)C=C4

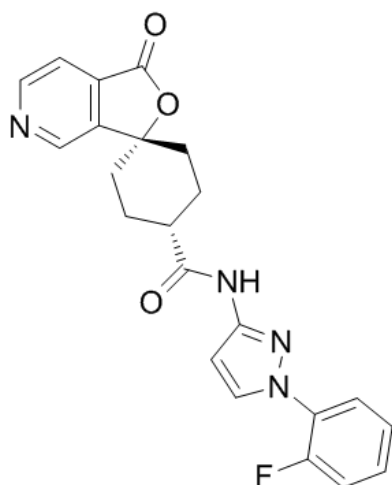
Formula $C_{22}H_{19}FN_4O_3$ M.Wt 406.41

Solubility DMSO : ≥ 28 mg/mL (68.90 mM) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

MK-0557 is a highly selective, orally available neuropeptide Y5 receptor antagonist with a K_i of 1.6 nM.

MK-0557 antagonizes the effects of the NPY5R-selective agonist on body-weight gain and hyperphagia in C57BL/6J mice and significantly suppresses the body-weight gain in diet-induced obese (DIO) mice. When lean mice on regular chow are switched to a medium high-fat diet (4.2

Caution: Product has not been fully validated for medical applications. For research use only.

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kcal/g) and treated with MK-0557 at 30 mg/kg PO QD, MK-0557 causes a 40% reduction in body-weight gain at day 35[2].

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[1]. Fichtner M, et al. Discovery and evaluation of spirocyclic derivatives as antagonists of the neuropeptide Y5 receptor. *Bioorg Med Chem Lett*. 2012 Apr 15;22(8):2738-43. [2]. Erondur N, et al. Neuropeptide Y5 receptor antagonism does not induce clinically meaningful weight loss in overweight and obese adults. *Cell Metab*. 2006 Oct;4(4):275-82.

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